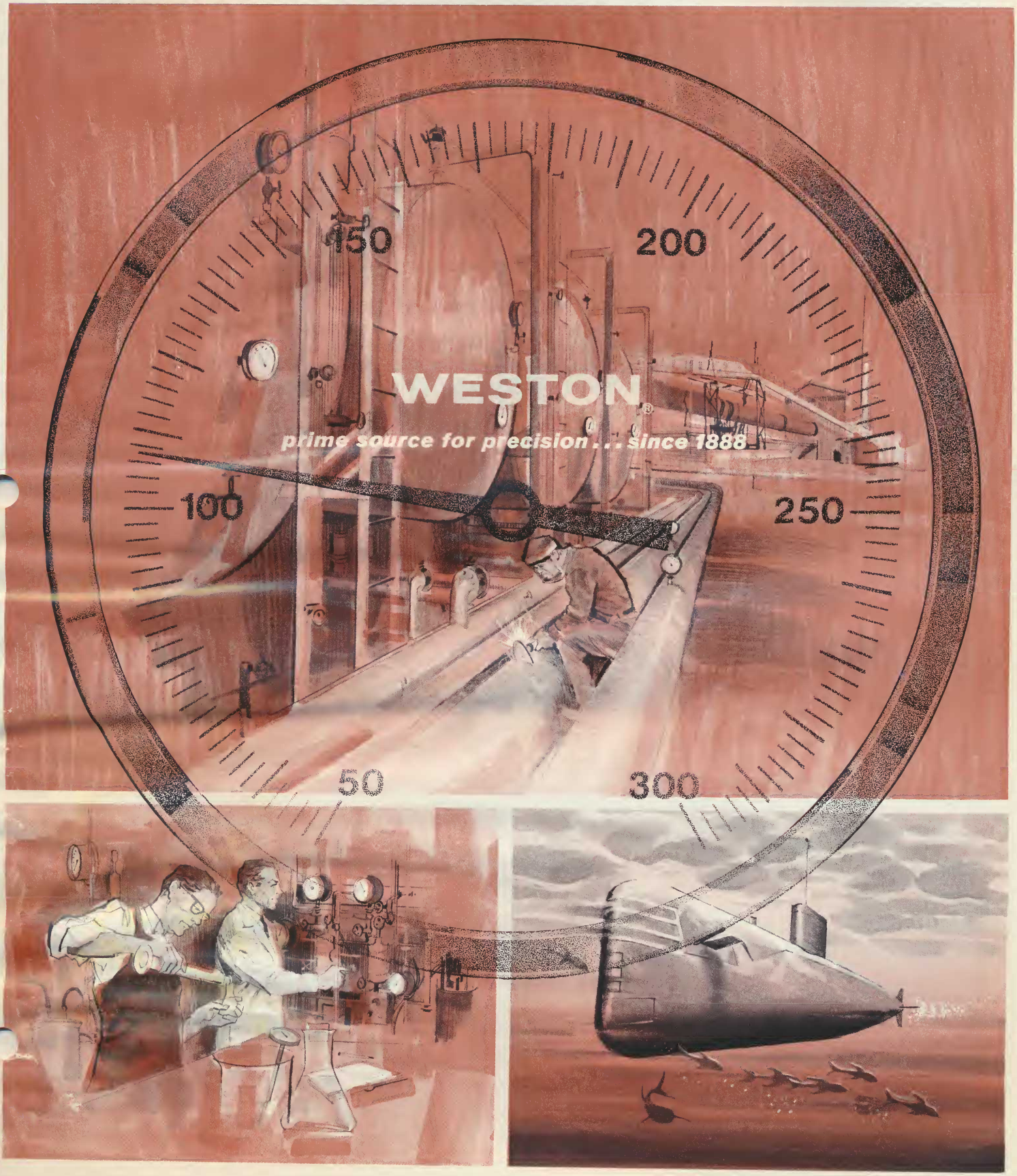
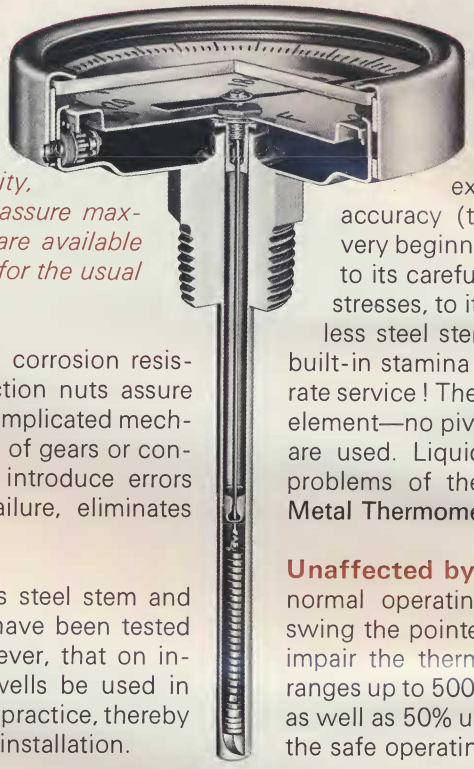
WESTONBIMETALTHERMOMETERS



FEATURES: Rugged construction / Externally calibrated / Easy to read "in-line" scales and pointers / Corrosion resistant stainless steel / Unaffected by over and under temperature / Accuracy from ½% to 1% / Sealed against moisture / Removable bezel / Rapid response time /

ADVANTAGES

The thermometers listed in this catalog have been designed to provide accurate and dependable temperature measurements for industrial and laboratory applications. Their rugged all-metal construction, exceptional readability, and proved reliability all combine to assure maximum service. Weston thermometers are available in a variety of ranges, sizes, and types for the usual industrial and laboratory applications.



SECTIONAL VIEW OF A WESTON BI-METAL THERMOMETER

Rugged: All-metal construction with corrosion resistant stainless steel stems and connection nuts assure long, dependable service. No pivots, complicated mechanisms or parts, are used. The absence of gears or connection links, factors which tend to introduce errors and frequently result in complete failure, eliminates wear and friction.

Pressure Tested: The 18-8 stainless steel stem and connection nut on industrial models have been tested at 1000 psi. It is recommended, however, that on installations involving high pressures, wells be used in accordance with standard thermometer practice, thereby providing additional insurance to the installation.

Easy to Install: Thermometer connection nuts have National Pipe Threads. Easily mounted at any angle for convenience in reading.

Easy to Read: The circular dial and pointer method of measuring temperature permits the use of easily read, widely spaced scale markings.

Sensitive Element: The heart of Weston All Metal Thermometers is the helix sensing element. The Weston helix is more than just the "run of the mill" sensing element, for Weston's exclusive fabrication assures long-term accuracy (to ± ½% of the entire scale). From the very beginning of the formation of the bimetal helix, to its careful sizing and aging to eliminate inherent stresses, to its shock mounted inclusion in the stainless steel stem, every Weston Thermometer has the built-in stamina to give years of dependable and accurate service! The pointer is driven directly by the sensing element—no pivots or complicated linkage mechanisms are used. Liquid column separation and leakage are problems of the past when you specify **Weston All Metal Thermometers.**

Unaffected by over or under Temperatures: Abnormal operating conditions which may temporarily swing the pointer beyond the end of the scale will not impair the thermometer accuracy. 50% overswing on ranges up to 500 F and 10% for ranges of 500 F to 750 F, as well as 50% underswing on all ranges are well within the safe operating limits of the bi-metal element.

Reliable: The bi-metal principle of temperature measurement eliminates the need for gases, liquids, or capillary connections. Since Weston thermometers are of all-metal construction, breakage and maintenance are materially reduced.

Calibration: All thermometers are calibrated with standards directly traceable to the National Bureau of Standards.

WARRANTY

Weston products are warranted to be of good workmanship and quality and free from defects in manufacture. Our liability is limited to repairing such defects, providing return is made prepaid to the Service Division of Weston Instruments, Inc., Weston-Newark Division, 614 Frelinghuysen Ave., Newark, N. J. 07114, within (1) year after delivery to the original purchaser. We shall not be liable for consequential damages. This warranty is in lieu of all other warranties, guaranties, liabilities or obligations, statutory or implied, to the original purchaser or to any other person.

GENERAL INFORMATION

Weston Thermometers are equipped with 18-8 Type 304 stainless steel stems, which are corrosion resistant and will withstand pressures encountered in practically all industrial applications. However, where the safety requirements in a specific service demand it, or where abrasion or corrosion are important factors, Weston Wells should be used. They can be supplied for most Weston Thermometers, and facilitate removal in many applications. A complete line of mounting accessories is illustrated on pages 14 and 15.

Thermometer stems over 36" long are supplied with a heavy walled stem of .375" outside diameter. A long stem may require support as a protection against bending. In some cases, this can be accomplished in the mounting of the instrument. *Prices for long stem thermometers on application.*

Special Applications: The thermometers covered by this catalog have standard ranges and stem lengths. If your application involves other than standard thermometers, odd size connection nuts, ranges, specially marked or calibrated scale plates, odd stem lengths, special fabricating materials, finishing and special waterproofing—please feel free to write regarding your requirements, or communicate with the nearest Weston Representative or District Office, located in principal cities.

SpecialWindows: All Weston Thermometers can be supplied with special, clear, unbreakable plastic windows in lieu of the standard glass, at a surcharge. This new plastic withstands scratches very satisfactorily and will not discolor. Since the window material is usually the coolest part of the thermometer while in use, the temperature of the face, rather than of the stem, should determine whether plastic windows should be specified. Plastic scale windows will withstand temperature up to 150 F.

Corrosive Conditions: Where corrosive conditions indicate the use of special materials in wells, correspondence is necessary. Information should contain the corrosive medium and temperatures involved. It would also be helpful to know what other materials are at present being used in contact with this corrosive medium, such as the tank lining, pipes and valves and whether or not an electric current is present.

Many corrosive conditions can be overcome by coating the thermometer stem or well with a suitable lead or plastic coating. In order to provide the proper coating, complete details as listed above are necessary. Price will depend upon the material used and the stem length.

Well and Stem Dimensions: The minimum stem length of Weston wells is 3½" (this dimension includes the external threads). This well fits a Weston Thermometer having a stem length of 4". For other well dimensions refer to pages 14 and 15.
Stem length dimensions of Weston Thermometers, as well as wells, always include the external threads.

High Pressure or Heavy Duty Wells: Wells are available for high pressure or heavy duty installations in any type of service. These wells are of thick, stainless steel construction. Prices on application.

ORDERING INFORMATION

When correctly selected, Weston Thermometers will give many years of dependable, accurate service; therefore, it is important that your purchase orders contain the following information:

1 Model number.

2 Range desired.

3 Stem length required.

4 Connection nut size if not Standard.

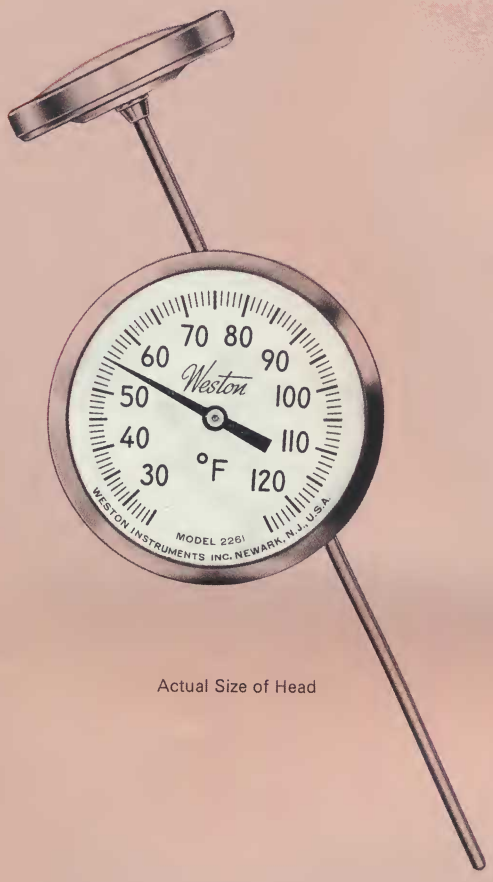
5 Accessories required. (State part number.)

6 If your particular application involves the use of other than standard Weston Thermometers or Accessories to be employed under other than normal operating conditions, please supply details.

7 If head is to be subjected to temperatures in excess of 300 F, state temperature.

TESTING THERMOMETER

MODEL 2261



Actual Size of Head

General: This thermometer, except for the scale glass, is completely encased in stainless steel, which is corrosion resistant to most acids and gases. For protection against corrosives that attack stainless steel, see page 3.

Head: 1¾" diameter, 18-8 stainless steel case and bezel. Metal scale plate with permanent black figures and markings. Pointer and scale designed for easy reading. Glass window is standard (See page 3 for plastic windows). If head is to be subjected to temperatures in excess of 300 F, state temperature when ordering.

Scale Length: 3.40 inches.

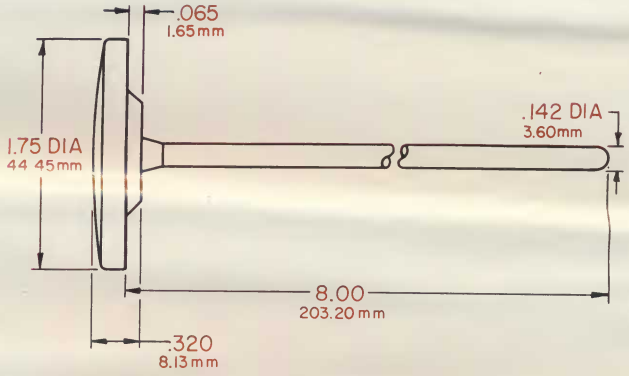
Stem: 18-8 Type 304 stainless steel, .142" diameter. Standard stem length is 8" including hub; other stem lengths up to 12" in ½" increments and from 12" to 24" in 1" increments available on special order. Stems from 12" to 24" long are .162" diameter.

Immersion: For correct temperature indications, immerse at least 2" in liquids and 4" in gases.

Accuracy: Within ½ of 1% of the thermometer range (1 F per 200 F or ½ C per 100 C).

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
–100 to 100 F	2	50 to 300 F	2	–10 to 110 C	2
25 to 125 F	1	50 to 400 F	5		
–40 to 160 F	2	50 to 500 F	5	0 to 100 C	1
0 to 180 F	2			0 to 150 C	2
		–100 to 40 C	2	0 to 250 C	5
0 to 220 F	2	0 to 50 C	½		
50 to 250 F	2	–50 to 100 C	2		

Approximate Weight . . . . . 1 oz.



All Dimensions are Approximate.

Spike Stem Thermometer—

The addition of a spike stem makes the Model 2261 an ideal meat or food testing thermometer.

Can also be supplied for internal oven use where the entire thermometer would be used at continuous high temperatures. Available in following ranges.

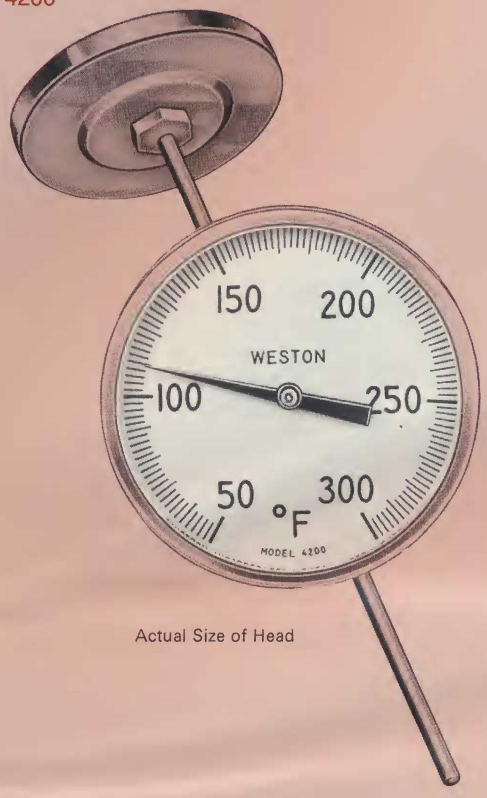
RANGES	STEM LENGTHS	RANGES	STEM LENGTHS
–40 to 160 F	5" or 8"	0 to 220 F	5" or 8"
0 to 180 F	5" or 8"	25 to 125 F	5"

Approximate Weight . . . . . 1 oz.

LABORATORY THERMOMETER

WITH EXTERNAL ADJUSTMENT

MODEL 4200



Actual Size of Head

General: This thermometer, except for the scale glass, is completely encased in stainless steel, which is corrosion resistant to most acids and gases. For protection against corrosives that attack stainless steel, see page 3.

The thermometer can be recalibrated without disassembly by firmly holding the head and immersing the stem at least 2" in an agitated known controlled temperature bath and turning the hex nut until the pointer indicates the correct temperature.

Head: 2" diameter, 18-8 stainless steel case and bezel. Metal scale plate with permanent black figures and markings. Pointer and scale designed for easy reading. Glass window is standard. Head should not be subjected to temperatures in excess of 300 F.

Scale Length: 4½".

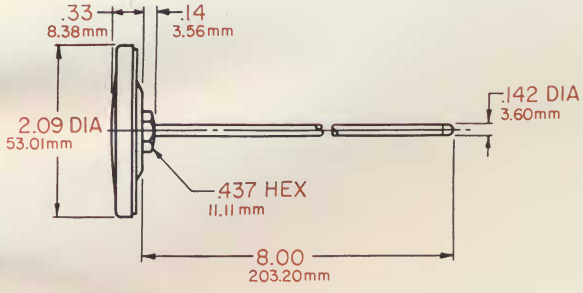
Stem: 18-8 Type 304 stainless steel, .142" diameter. Standard stem length is 8" including external adjustment nut.

Immersion: For correct temperature indications, immerse at least 2" in liquids and 4" in gases.

Accuracy: Within ½ of 1% of the thermometer range.

RANGE	°/DIV	RANGE	°/DIV.	RANGE	°/DIV.
–100 to 100 F	2	50 to 300 F	2	–10 to 110 C	2
25 to 125 F	1	50 to 400 F	5		
–40 to 160 F	2	50 to 500 F	5	0 to 100 C	1
0 to 180 F	2			0 to 150 C	2
		–100 to 40 C	2	0 to 250 C	5
0 to 220 F	2	0 to 50 C	½		
50 to 250 F	2	–50 to 100 C	2		

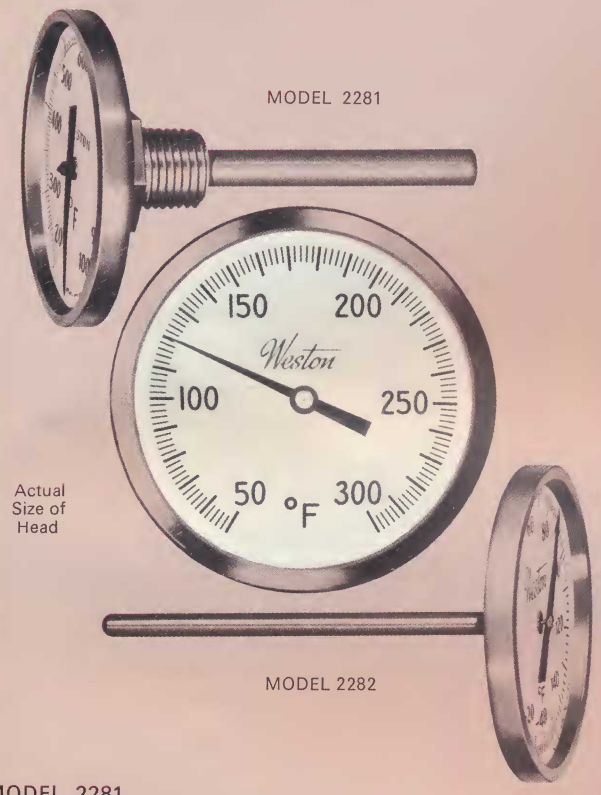
Approximate Weight . . . . . 1 oz.



All Dimensions are Approximate.

GENERAL PURPOSE THERMOMETERS

MODELS 2281 AND 2282



MODEL 2281

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
–100 to 100 F	2	50 to 500 F	5	–10 to 110 C	1
–40 to 120 F	2	150 to 750 F	10		
25 to 125 F	1	200 to 1000 F*	10	0 to 150 C	2
0 to 200 F	2			0 to 200 C	2
20 to 240 F	2	–100 to 50 C	2	0 to 300 C	5
		0 to 50 C	½	100 to 400 C	5
50 to 300 F	2	–50 to 100 C	2		
50 to 400 F	5	0 to 100 C	1		

*Not recommended for continuous operation above 800 F.

MODEL 2282

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
–100 to 100 F	2	50 to 300 F	2	–10 to 110 C	2
25 to 125 F	1	50 to 400 F	5	0 to 100 C	1
–40 to 160 F	2	50 to 500 F	5		
0 to 180 F	2			0 to 150 C	2
0 to 220 F		–100 to 40 C	2	0 to 250 C	5
	2	0 to 50 C	½		
50 to 250 F	2	–50 to 100 C	2		

Model 2282—Scale Calibrated in Both °C. and °F.

For use in exploring unknown temperatures with less danger of overscaling. Stem Length 8".

with .142" diam. stem		*with .25" diam. stem*	
Range	–100 to 260 C –150 to 500 F	Range	–100 to 540 C –150 to 1000 F

Approximate Weights

Model 2281, 2½" to 12" stem—Model 2282, 8" stem.....2 oz.

General: The overall design of these thermometers makes them particularly adaptable for either testing or general industrial use where small size is important. Model 2281 is the industrial version, regularly equipped with 18-8 stainless steel, ¼" diameter stem and threaded ¼" National Pipe Thread connection nut. (Can be supplied with ⅜" or ½" N.P.T. connection nut at a surcharge.)

For general test purposes Model 2282 is recommended and is regularly supplied with 18-8 stainless steel, .142" diameter stem, without connection nut.

Head: 2" diameter, 18-8 stainless steel case and bezel. Metal scale plate with permanent black figures and markings. Pointer and scale designed for easy reading. Glass window is standard (See page 3 for plastic windows). If head is to be subjected to temperatures in excess of 300 F, state temperature when ordering.

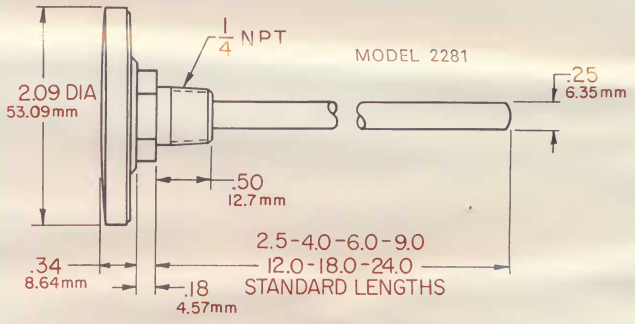
Scale Length: 4½".

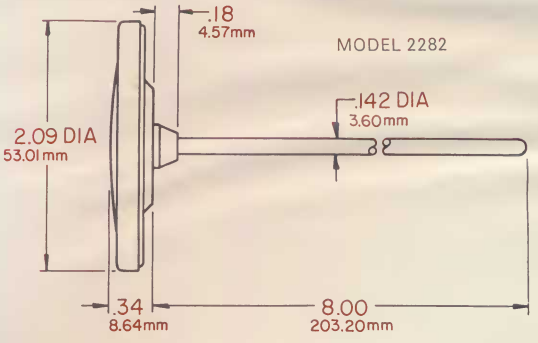
Stem: Model 2281, 18-8 Type 304 stainless steel, .25" diameter. Standard lengths are 2½", 4", 6", 9", 12", 18" and 24", including threads. Can be supplied with intermediate stem lengths up to 12" in ½" increments and from 12" to 36" in 1" increments on special order.

Model 2282, 18-8 Type 304 stainless steel, .142" diameter. Standard length 8" including hub. Can be supplied in other stem lengths up to 12" in ½" increments and from 12" to 24" in 1" increments available on special order. Stems from 12" to 24" long are .162" diameter.

Immersion: For correct temperature indications, the stem should be immersed at least 2" in liquids and 4" in gases.

Accuracy: Within 1% for Model 2281 and ½% for Model 2282 of range over entire scale.

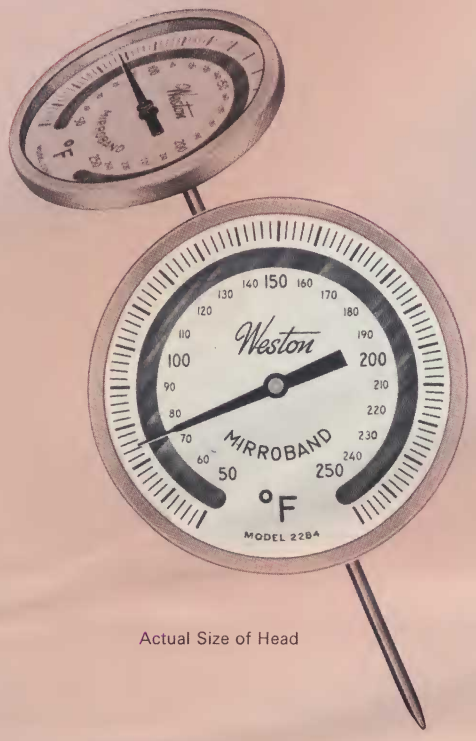




All Dimensions are Approximate.

MIRROBAND® PRECISION TESTING THERMOMETER

MODEL 2284



Actual Size of Head

General: The overall design of these rugged all-metal thermometers makes them particularly useful for precise temperature measurement. A mirror scale and a knife-edge pointer are incorporated to eliminate parallax error. Except for the scale glass, this thermometer is completely encased in welded stainless steel which is corrosion resistant to most common acids and gases.

Head: 2" diameter, metal scale plate with white background and black figures and markings. Glass window is standard. If head is to be subjected to temperatures in excess of 250°F, state temperature when ordering.

Scale Length: 4½"

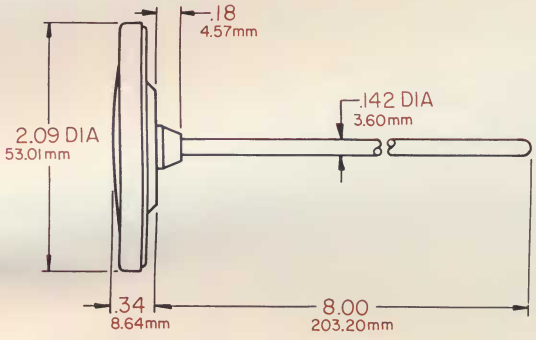
Stem: 18-8 type 304 stainless steel, .142" diameter. Standard length is 8".

Immersion: For correct temperature indications, the stem should be immersed at least 2" in liquids, 4" in gases.

Accuracy: Within ½% of range over the entire scale.

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
25 to 125 F	1	50 to 250 F	2	–10 to 110 C	1
–20 to 100 F	1	50 to 500 F	5	0 to 250 C	5
0 to 220 F	2				

Approximate Weight . . . . . 1 oz.

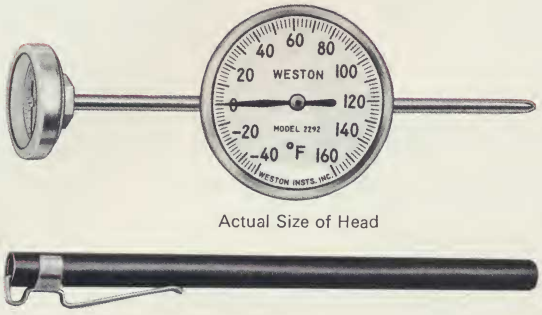


All Dimensions are Approximate.

POCKET THERMOMETER

WITH EXTERNAL ADJUSTMENT –

MODEL 2292



Actual Size of Head

General: Ideal for spot checking by inspectors, foremen, operators in various industries such as heating, ventilating, chemical and oil. Supplied with a hard rubber carrying case with an attached pocket clip.

The thermometer can be recalibrated without disassembly by firmly holding the head and immersing the stem at least 2" in an agitated known controlled temperature bath and turning the hex nut until the pointer indicates the correct temperature.

Head: 1" diameter, 18-8 stainless steel, case and bezel. Plastic window is standard. If head temperature exceeds 220 F a glass window can be supplied at a surcharge. Metal scale plate with permanent black figures and markings.

Scale Length: 2.1 inches.

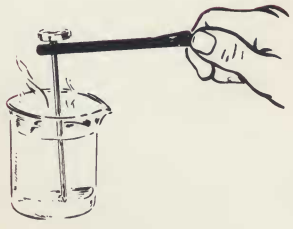
Stem: 5" spiked, (For easy insertion into meat, food packages or any semi-solid materials) 18-8 Type 304 stainless steel, .142" diameter.

Immersion: For correct indications the stem should be immersed at least 2" in liquids and 4" in gases.

Accuracy: Within ½% of range over entire scale.

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
–40 to 160 F	2	0 to 220 F	2	0 to 150 C	2
25 to 125 F	1	50 to 500 F	5	0 to 250 C	5

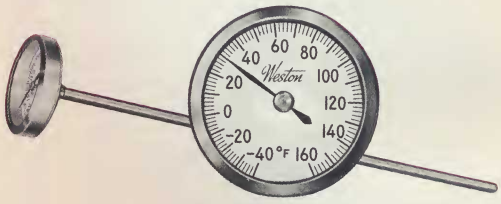
Approximate Weight . . . . . 1 oz.



Note a small loop on the clip at the end of the black pocket case provided with the thermometer. By inserting the stem through the loop, the case becomes a convenient handle for immersing the thermometer in liquids and avoids possible burns or loss of thermometer.

MIDGET THERMOMETER

MODEL 2291



Actual Size of Head

General: Where space is limited, this custom fabricated compact thermometer is ideal for fastening to equipment by means of its ¼-28x¼" long threaded hub, located at the stem-case junction.

Head: 1" diameter, 18-8 stainless steel, case and bezel. Plastic window is standard. If head temperature exceeds 220 F a glass window can be supplied at a surcharge. Metal scale plate with permanent black figures and markings.

Scale Length: 2.1 inches.

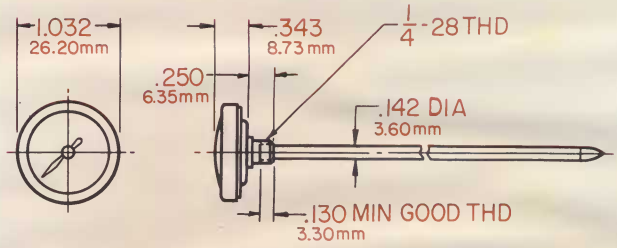
Stem: 18-8 Type 304 stainless steel, .142" diameter; 2½" to 12" stem lengths in ½" increments. Stem lengths from 12" to 24" in 1" increments with .162" diameter.

Immersion: For correct indications the stem should be immersed at least 2" in liquids and 4" in gases.

Accuracy: Within ½% of range over entire scale.

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
–40 to 160 F	2	0 to 220 F	2	0 to 150 C	2
25 to 125 F	1	50 to 500 F	5	0 to 250 C	5

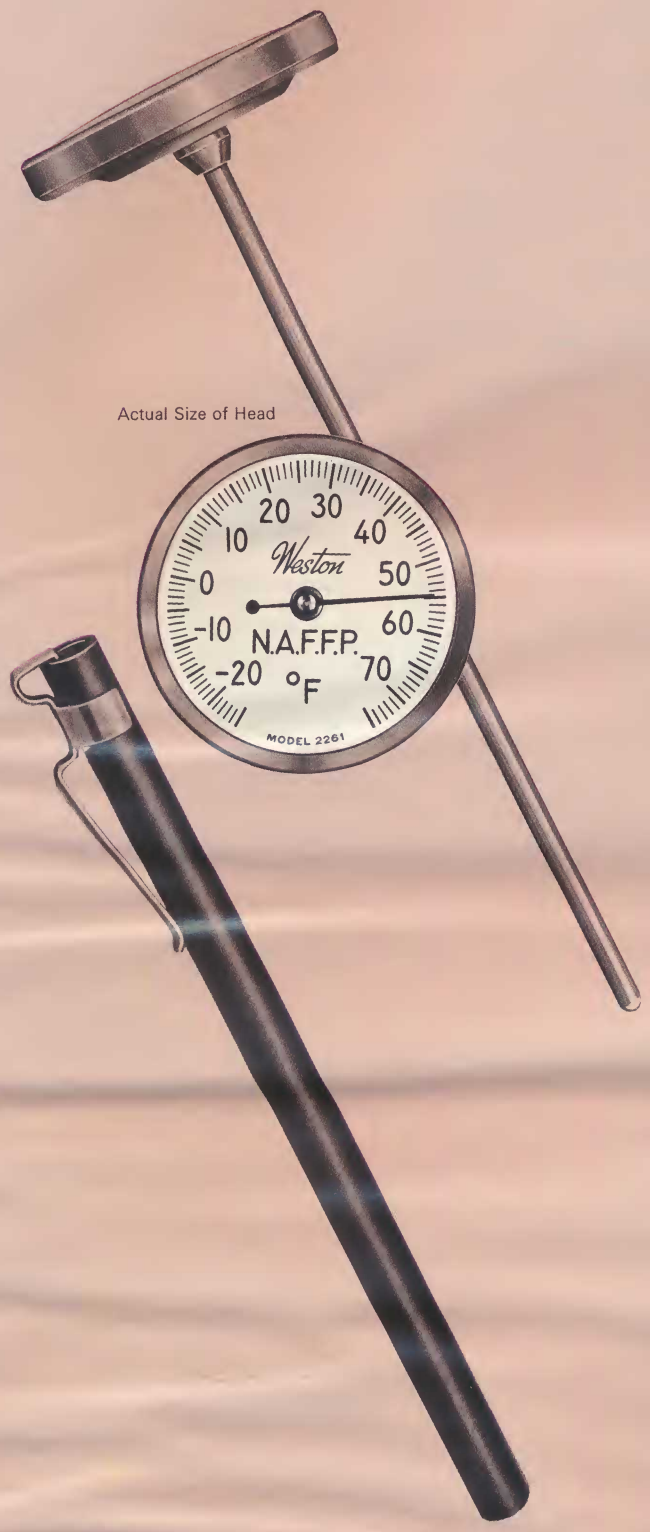
Approximate Weight . . . . . 1 oz.



All Dimensions are Approximate.

N.A.F.F.P. FROZEN FOOD THERMOMETER

MODEL 2261-0010241



General: This thermometer, except for the scale glass, is completely encased in stainless steel, which is corrosion resistant to most acids and gases. For protection against corrosives that attack stainless steel, see page 3.

Supplied with hard rubber carrying case with an attached pocket clip.

Head: 1¾" diameter, 18-8 stainless steel case and bezel. Metal scale plate with permanent black figures and markings. Pointer and scale designed for easy reading. Glass window is standard (See page 3 for plastic windows).

Scale Length: 3.40 inches.

Stem 18-8 Type 304 stainless steel, .142" diameter. Standard stem length is 5" including hub.

Immersion: For correct temperature indications, immerse at least 2" in liquids and 4" in gases.

Accuracy: Within ½ of 1% of the thermometer range (1 F per 200 F or ½ C per 100 C).

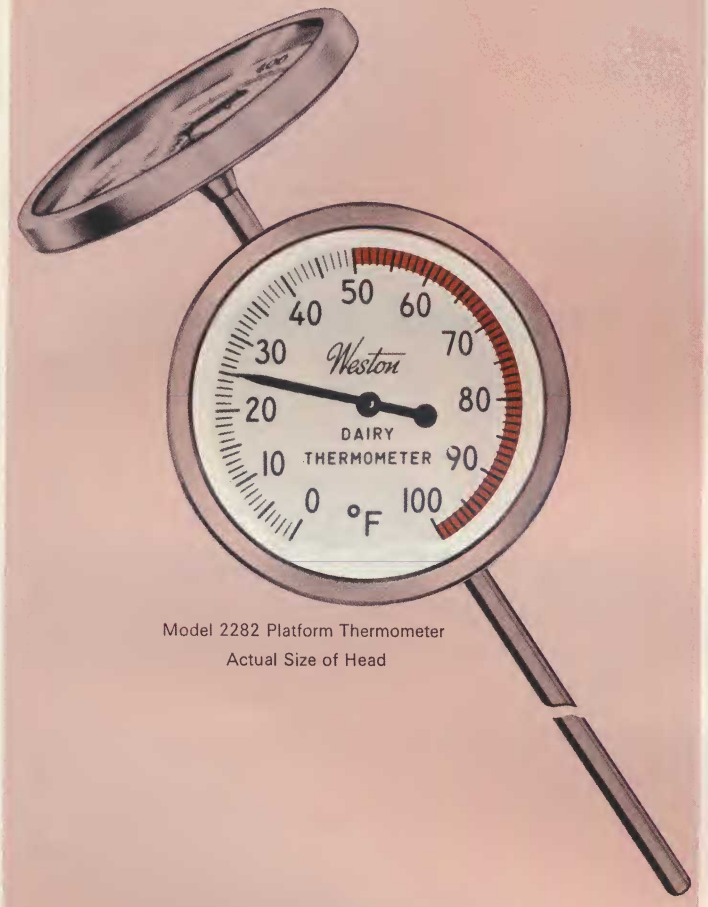
Range: —25 F to 75 F (off-scale temperatures will not damage)

The high standards of quality established for frozen foods are the basic reason for the phenomenal success of the frozen industry. Prime quality is dependent upon correct temperature.

The Weston N.A.F.F.P. Thermometer has been specifically designed to provide accurate reliable temperature measurements for this flourishing industry. This is the bi-metallic thermometer which was used in the national survey *(jointly sponsored by the association of Food and Drug officials of the United States and the National Association of Frozen Food Packers)* on retail handling of frozen foods.

DAIRY THERMOMETERS

MODEL 2282



Model 2282 Platform Thermometer
Actual Size of Head

General: Light in weight, easy to use and ruggedly built. A handle (P/N 95315) is available permitting thermometer to be attached to rim of can.

Head: 2" diameter. 18-8 stainless steel case and bezel. Metal scale plate with permanent black figures and markings. Scale arc in red from 50-100 F for rapid and accurate inspection. Plastic window is standard.

Scale Length: 4½ inches.

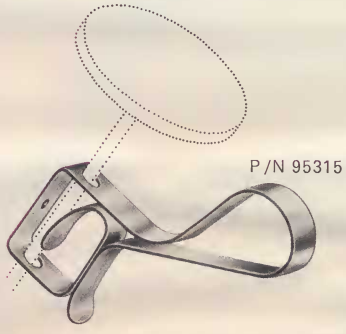
Stem: 18-8 type 304 stainless steel, .162" dia. x 16" lg.

Accuracy: Within 1% of the range over the entire scale.

Range: 0-100 F, 1° per division.

Approximate Weight ..... 2 oz.

Platform Thermometer Handle



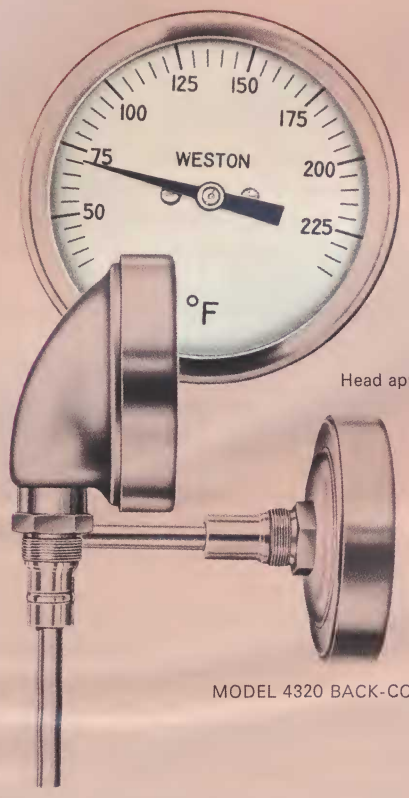
A nickel-plated brass handle is available for the Model 2282 Platform Thermometer, providing added convenience in checking incoming milk. Simplifies attachment of the thermometer directly to the rim of the can.

For special Sanitary Wells see page 15.

NAVY TYPE THERMOMETERS

BACK CONNECTED – MODEL 4320

BOTTOM CONNECTED – MODEL 4330

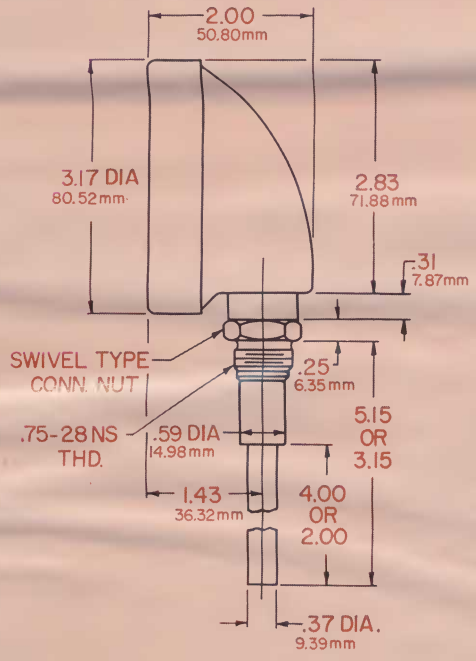


Head approx. ⅔ actual size.

MODEL 4320 BACK-CONNECTED

MODEL 4330 BOTTOM-CONNECTED

MODEL 4330



All Dimensions are Approximate.

General: These thermometers and wells meet all the requirements of Specification MIL-T-17244B for bi-metallic thermometers which includes high shock and vibration requirements.

MODEL	TYPE	FORM	CONNECTION
4320	II	Angle	Back
4330	I	Straight	Bottom
4330	III	Straight	90° To Right
4330	IV	Straight	90° To Left

These thermometers in their wells, will fit into standard industrial fittings, since the Navy type well has the same pipe thread as the standard industrial thermometer connection nut. A swivel type connection nut permits the thermometer to be securely held in any position in its well.

Head: 3" diameter, stainless steel case and bezel. Shatter-proof plastic window provides high resistance to breakage. Removable bezels (covers) simplify replacement of window in the field. The quick lock bezel and special gasket material, provide maximum sealing against leakage. Even with external changes in temperature "no breathing" action takes place, thus providing the maximum protection for the internal parts of the instruments. Gray finish per MIL-T-17244 B.

Scale Length: 5 inches.

Connection Nut: Brass, ¾"-28 threaded, swivel type.

Stem: 18-8 Type 304 stainless steel, .37" diameter. Supplied in either 2" or 4" lengths to fit Class 1 or 2 wells (See page 15).

Accuracy: Within ½ of smallest division on ranges listed, when tested without well, with stem immersed to the bottom of swivel type connection nut.

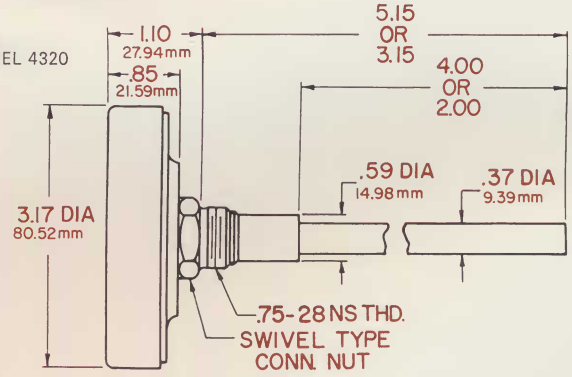
MODELS 4320 and 4330

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
–40 to 110 F	2	30 to 240 F	5	50 to 750 F	10
20 to 180 F	2	50 to 400 F	5		

Approximate Weights

Model 4320 . . . . . ½ lb. Model 4330 . . . . . ¾ lb.

MODEL 4320

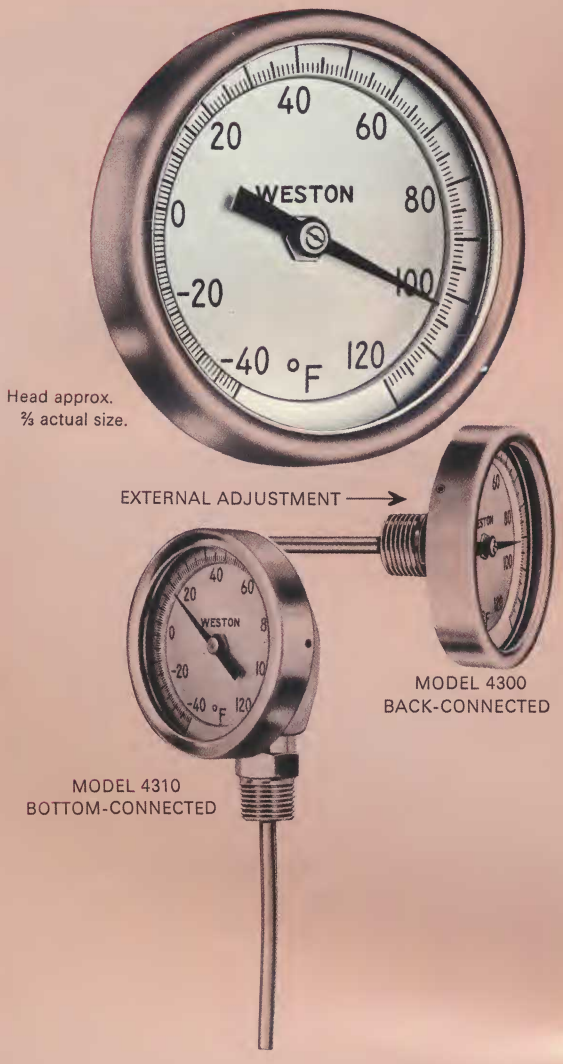


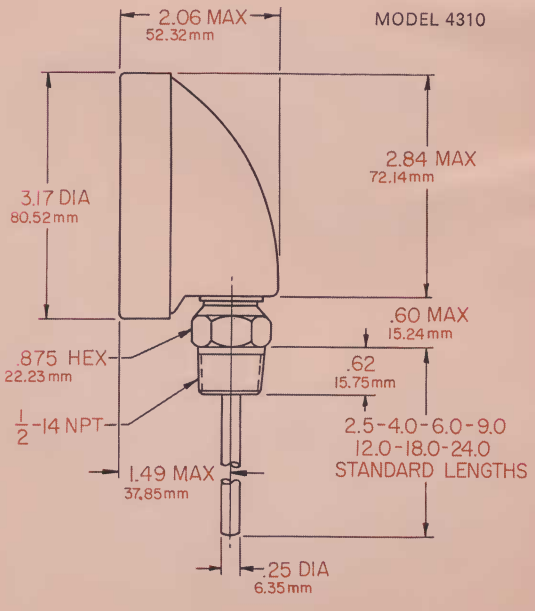
All Dimensions are Approximate.

3″ AND 5″ STANDARD INDUSTRIAL THERMOMETERS

WITH EXTERNAL ADJUSTMENT

MODELS 4300 AND 4310





All Dimensions are Approximate.

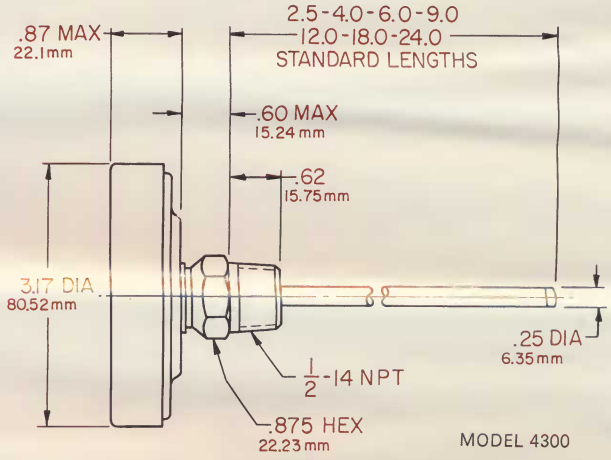
Head: Models 4300/4310 3″ diameter and Models 4500/4510 5″ diameter, with stainless steel cases and bezels. Heavy glass windows provide high resistance to breakage. Removable covers simplify replacement of glass in the field. Equipped with quick-lock bezels and special gasket material which protect against breathing and leakage under outdoor environmental conditions and low temperature service without fogging or freeze-up. Even with external changes in temperature "no breathing" action takes place, thus providing the maximum protection for the internal parts of the instruments.

Scale and Pointer: In-line scale and pointer provide accurate readings at any eye level. Metal scale plate, with permanent black figures and markings. Pointers are damped against excessive movement in the presence of vibration.

Models 4300/4310 scale lengths are 6″ and Models 4500/4510 are 10″.

Stem: 18-8 Type 304 Stainless Steel, ¼″ diameter. Standard lengths are 2½″, 4″, 6″, 9″, 12″, 18″ and 24″. (Can also be supplied with stem lengths from 2½″ to 12″ in ½″ increments and from 12″ to 36″ in 1″ increments. From 36″ to 72″ in 6″ increments for Models 4300/4500 and 36″ to 48″ for Models 4310/4510 in 6″ increments on special order.)

All stainless steel welds are used at both plug and case ends of the stem, thus providing high resistance to corrosion.



All Dimensions are Approximate.

Connection Nut: 18-8 stainless steel threaded ½" N.P.T., is standard. Can be supplied with ¾" N.P.T. at a surcharge.

Immersion: For correct temperature indications the stem should be at least 2" in liquids and 4" in gases.

Accuracy: Within ±1% of range over entire scale.

Adjustment: EXTERNAL ADJUSTMENT (ALLEN) screw provides an easy means of recalibration. Simply immerse stem in a liquid of known temperature and adjust to correct reading. This feature also permits a 360° rotation of the scale, thus it is a simple matter to adjust the scale to a readable position, regardless of stem location.

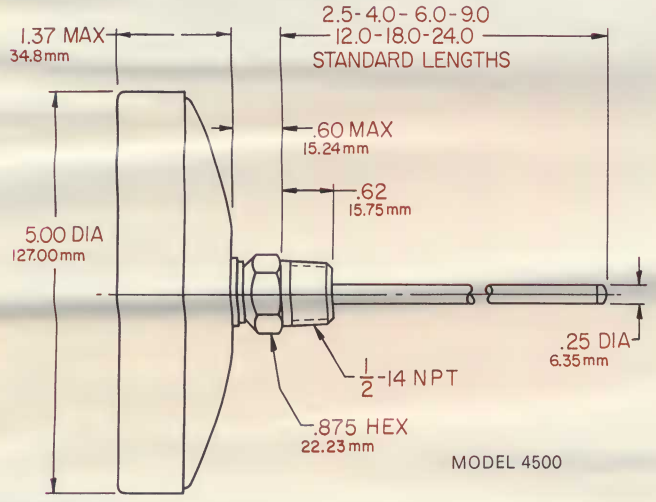
MODELS 4300/4310/4500/4510

RANGE	°/DIV.	RANGE	°/DIV.	RANGE	°/DIV.
–100 to 100F	2	50 to 400F	5	–10 to 110C	1
–40 to 120F	1	50 to 500F	5	0 to 50C	½
0 to 200F	2	150 to 750F	10	0 to 100C	1
25 to 125F	1	200 to 1000F*	10	0 to 150C	1
20 to 240F	2	–100 to 50C	1	0 to 200C	2
50 to 300F	2	–50 to 100C	1	0 to 300C	5
				100 to 400C	5

*Not recommended for continuous operation above 800 F.

Approximate Weights

2½" to 24" stem..... ½ lb.



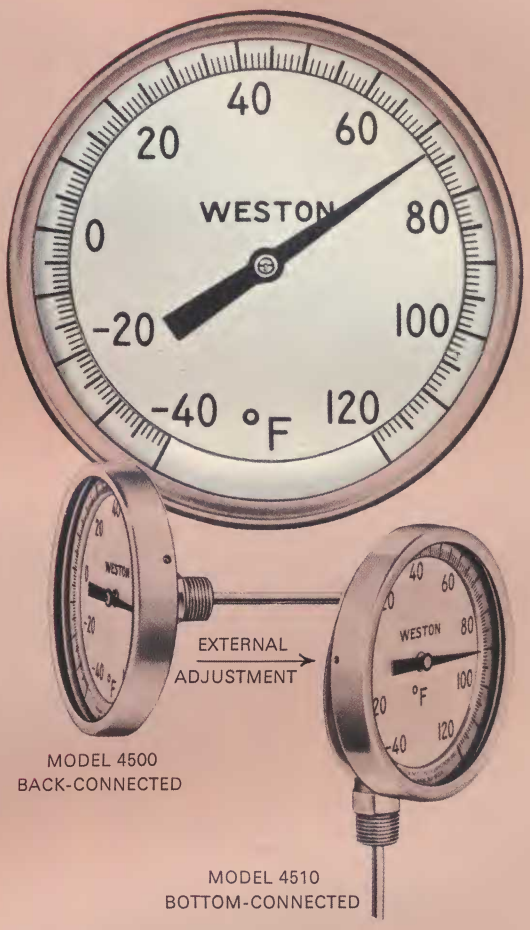
MODEL 4500

All Dimensions are Approximate.

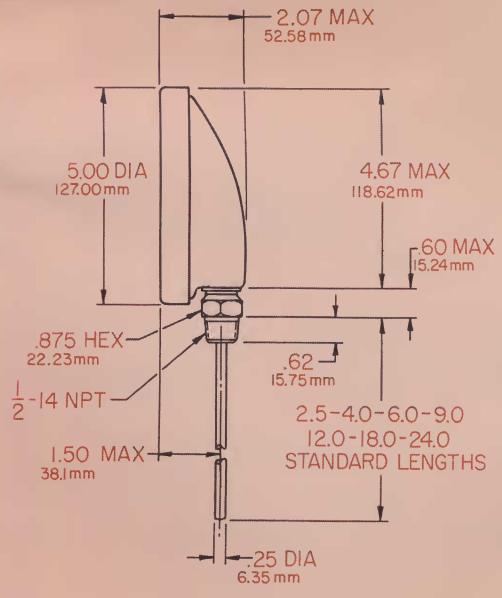
3" AND 5" STANDARD INDUSTRIAL THERMOMETERS

WITH EXTERNAL ADJUSTMENT

MODELS 4500 AND 4510



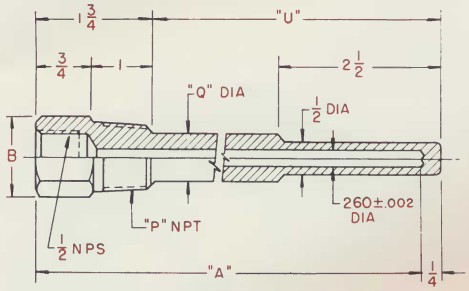
MODEL 4510



All Dimensions are Approximate.

WESTON WELLS AND BUSHINGS

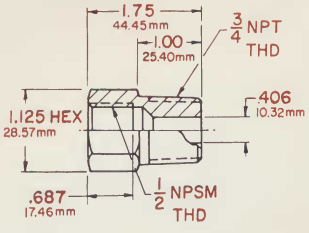
Wells WITHOUT Lagging Extension



A	B	P	Q	U	MATERIAL	MATERIAL TYPE	PART NUMBER
4	1 1/8	3/4	—	2 1/2	Carbon Steel	AISI C-1018	95327-001
4	1 1/8	3/4	—	2 1/2	Brass	ASTM B-16	95440-001
4	1 1/8	3/4	—	2 1/2	Stainless Steel	AISI 304	95330-124
4	1 1/8	3/4	—	2 1/2	Stainless Steel	AISI 316	96159-124
4	1 3/8	1	—	2 1/2	Carbon Steel	AISI C-1018	95868-001
4	1 3/8	1	—	2 1/2	Brass	ASTM B-16	95872-001
4	1 3/8	1	—	2 1/2	Stainless Steel	AISI 304	95871-124
4	1 3/8	1	—	2 1/2	Stainless Steel	AISI 316	96618-124
6	1 1/8	3/4	3/4	4 1/2	Carbon Steel	AISI C-1018	95443-001
6	1 1/8	3/4	3/4	4 1/2	Brass	ASTM B-16	95447-001
6	1 1/8	3/4	3/4	4 1/2	Stainless Steel	AISI 304	95446-124
6	1 1/8	3/4	3/4	4 1/2	Stainless Steel	AISI 316	96133-124
6	1 3/8	1	7/8	4 1/2	Carbon Steel	AISI C-1018	95880-001
6	1 3/8	1	7/8	4 1/2	Brass	ASTM B-16	95884-001
6	1 3/8	1	7/8	4 1/2	Stainless Steel	AISI 304	95883-124
6	1 3/8	1	7/8	4 1/2	Stainless Steel	AISI 316	96619-124
9	1 1/8	3/4	3/4	7 1/2	Carbon Steel	AISI C-1018	96053-001
9	1 1/8	3/4	3/4	7 1/2	Brass	ASTM B-16	96055-001
9	1 1/8	3/4	3/4	7 1/2	Stainless Steel	AISI 304	172756-124
9	1 1/8	3/4	3/4	7 1/2	Stainless Steel	AISI 316	173302-124
9	1 3/8	1	7/8	7 1/2	Carbon Steel	AISI C-1018	96588-001
9	1 3/8	1	7/8	7 1/2	Brass	ASTM B-16	96584-001
9	1 3/8	1	7/8	7 1/2	Stainless Steel	AISI 304	172760-124
9	1 3/8	1	7/8	7 1/2	Stainless Steel	AISI 316	173306-124
12	1 1/8	3/4	3/4	10 1/2	Carbon Steel	AISI C-1018	95948-001
12	1 1/8	3/4	3/4	10 1/2	Brass	ASTM B-16	95945-001
12	1 1/8	3/4	3/4	10 1/2	Stainless Steel	AISI 304	172757-124
12	1 1/8	3/4	3/4	10 1/2	Stainless Steel	AISI 316	173303-124
12	1 3/8	1	7/8	10 1/2	Carbon Steel	AISI C-1018	96589-001
12	1 3/8	1	7/8	10 1/2	Brass	ASTM B-16	96585-001
12	1 3/8	1	7/8	10 1/2	Stainless Steel	AISI 304	172761-124
12	1 3/8	1	7/8	10 1/2	Stainless Steel	AISI 316	173307-124
18	1 1/8	3/4	3/4	16 1/2	Carbon Steel	AISI C-1018	95949-001
18	1 1/8	3/4	3/4	16 1/2	Brass	ASTM B-16	95946-001
18	1 1/8	3/4	3/4	16 1/2	Stainless Steel	AISI 304	172758-124
18	1 1/8	3/4	3/4	16 1/2	Stainless Steel	AISI 316	173304-124
18	1 3/8	1	7/8	16 1/2	Carbon Steel	AISI C-1018	96590-001
18	1 3/8	1	7/8	16 1/2	Brass	ASTM B-16	96586-001
18	1 3/8	1	7/8	16 1/2	Stainless Steel	AISI 304	172762-124
18	1 3/8	1	7/8	16 1/2	Stainless Steel	AISI 316	173308-124
24	1 1/8	3/4	3/4	22 1/2	Carbon Steel	AISI C-1018	95950-001
24	1 1/8	3/4	3/4	22 1/2	Brass	ASTM B-16	95947-001
24	1 1/8	3/4	3/4	22 1/2	Stainless Steel	AISI 304	172759-124
24	1 1/8	3/4	3/4	22 1/2	Stainless Steel	AISI 316	173305-124
24	1 3/8	1	7/8	22 1/2	Carbon Steel	AISI C-1018	96591-001
24	1 3/8	1	7/8	22 1/2	Brass	ASTM B-16	96587-001
24	1 3/8	1	7/8	22 1/2	Stainless Steel	AISI 304	172763-124
24	1 3/8	1	7/8	22 1/2	Stainless Steel	AISI 316	173309-124

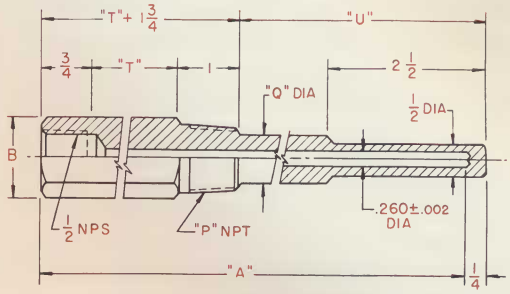
Bushings WITHOUT Lagging Extension

All Dimensions are Approximate.



MATERIAL	MATERIAL TYPE	PART NUMBER
Brass	ASTM B-16	95980-001
Carbon steel	AISI C-1018	95981-001
Stainless steel	AISI 304	95982-124

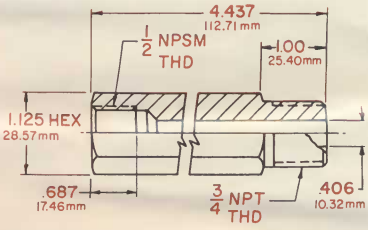
Wells WITH Lagging Extension



A	B	P	Q	U	T	MATERIAL	MATERIAL TYPE	PART NUMBER
6	1 1/8	3/4	—	2 1/2	2	Carbon Steel	AISI C-1018	95332-001
6	1 1/8	3/4	—	2 1/2	2	Brass	ASTM B-16	95441-001
6	1 1/8	3/4	—	2 1/2	2	Stainless Steel	AISI 304	95335-124
6	1 1/8	3/4	—	2 1/2	2	Stainless Steel	AISI 316	96134-124
6	1 3/8	1	—	2 1/2	2	Carbon Steel	AISI 2-1018	95874-001
6	1 3/8	1	—	2 1/2	2	Brass	ASTM B-16	95878-001
6	1 3/8	1	—	2 1/2	2	Stainless Steel	AISI 304	95877-124
6	1 3/8	1	—	2 1/2	2	Stainless Steel	AISI 316	96631-124
9	1 1/8	3/4	3/4	4 1/2	3	Carbon Steel	AISI C-1018	95830-001
9	1 1/8	3/4	3/4	4 1/2	3	Brass	ASTM B-16	95834-001
9	1 1/8	3/4	3/4	4 1/2	3	Stainless Steel	AISI 304	172764-124
9	1 1/8	3/4	3/4	4 1/2	3	Stainless Steel	AISI 316	173310-124
9	1 3/8	1	7/8	4 1/2	3	Carbon Steel	AISI C-1018	96606-001
9	1 3/8	1	7/8	4 1/2	3	Brass	ASTM B-16	96596-001
9	1 3/8	1	7/8	4 1/2	3	Stainless Steel	AISI 304	172768-124
9	1 3/8	1	7/8	4 1/2	3	Stainless Steel	AISI 316	173314-124
12	1 1/8	3/4	3/4	7 1/2	3	Carbon Steel	AISI C-1018	95959-001
12	1 1/8	3/4	3/4	7 1/2	3	Brass	ASTM B-16	95956-001
12	1 1/8	3/4	3/4	7 1/2	3	Stainless Steel	AISI 304	172765-124
12	1 1/8	3/4	3/4	7 1/2	3	Stainless Steel	AISI 316	173311-124
12	1 3/8	1	7/8	7 1/2	3	Carbon Steel	AISI C-1018	96607-001
12	1 3/8	1	7/8	7 1/2	3	Brass	ASTM B-16	96597-001
12	1 3/8	1	7/8	7 1/2	3	Stainless Steel	AISI 304	172769-124
12	1 3/8	1	7/8	7 1/2	3	Stainless Steel	AISI 316	173315-124
18	1 1/8	3/4	3/4	13 1/2	3	Carbon Steel	AISI C-1018	95960-001
18	1 1/8	3/4	3/4	13 1/2	3	Brass	ASTM B-16	95957-001
18	1 1/8	3/4	3/4	13 1/2	3	Stainless Steel	AISI 304	172766-124
18	1 1/8	3/4	3/4	13 1/2	3	Stainless Steel	AISI 316	173312-124
18	1 3/8	1	7/8	13 1/2	3	Carbon Steel	AISI C-1018	96608-001
18	1 3/8	1	7/8	13 1/2	3	Brass	ASTM B-16	96598-001
18	1 3/8	1	7/8	13 1/2	3	Stainless Steel	AISI 304	172770-124
18	1 3/8	1	7/8	13 1/2	3	Stainless Steel	AISI 316	173316-124
24	1 1/8	3/4	3/4	19 1/2	3	Carbon Steel	AISI C-1018	95961-001
24	1 1/8	3/4	3/4	19 1/2	3	Brass	ASTM B-16	95958-001
24	1 1/8	3/4	3/4	19 1/2	3	Stainless Steel	AISI 304	172767-124
24	1 1/8	3/4	3/4	19 1/2	3	Stainless Steel	AISI 316	173313-124
24	1 3/8	1	7/8	19 1/2	3	Carbon Steel	AISI C-1018	96609-001
24	1 3/8	1	7/8	19 1/2	3	Brass	ASTM B-16	96599-001
24	1 3/8	1	7/8	19 1/2	3	Stainless Steel	AISI 304	172771-124
24	1 3/8	1	7/8	19 1/2	3	Stainless Steel	AISI 316	173317-124

Bushings WITH Lagging Extension

All Dimensions are Approximate.

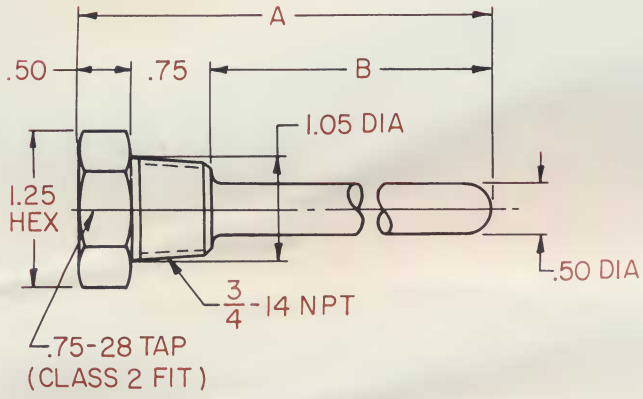


MATERIAL	MATERIAL TYPE	PART NUMBER
Brass	ASTM B-16	95975-001
Carbon steel	AISI C-1018	95976-001
Stainless steel	AISI 304	95977-124

Wells: Wells of other materials can be supplied on special order. Correspondence is invited.

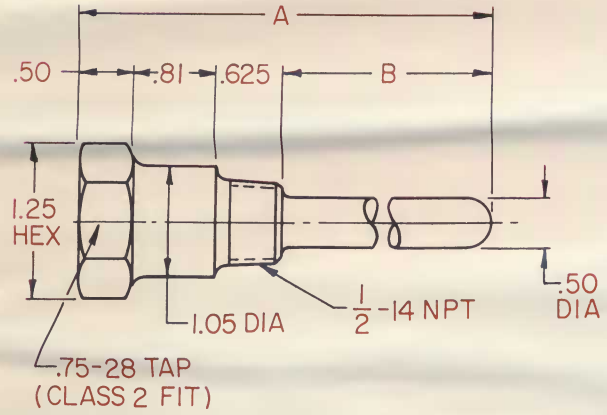
WELLS – NAVY TYPE THERMOMETERS

CLASS	MATERIAL	THERMOMETER N. P. T.	THERMOMETER STEM	PART NO.
1	Naval Brass	¾"	2"	97768
1	Monel	¾"	2"	97771
1	Naval Brass	¾"	4"	97766
1	Monel	¾"	4"	174846
2	Naval Brass	½"	2"	96441
2	Monel	½"	2"	97762
2	Naval Brass	½"	4"	97764
2	Monel	½"	4"	97765



NAVY CLASS 1

THERMOMETER STEM LENGTH	DIM A	DIM B
STANDARD 2"	3.25	2.00
LONG 4"	5.25	4.00



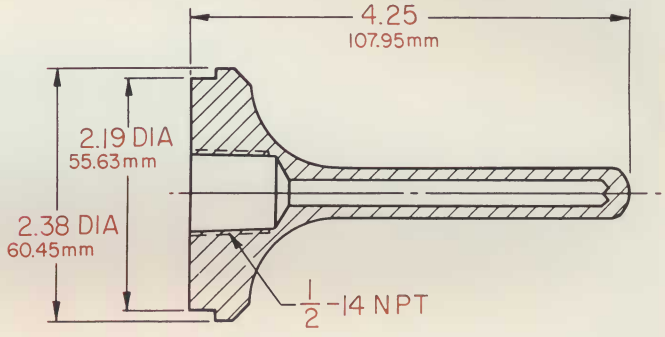
NAVY CLASS 2

THERMOMETER STEM LENGTH	DIM A	DIM B
STANDARD 2"	3.25	1.315
LONG 4"	5.25	3.315

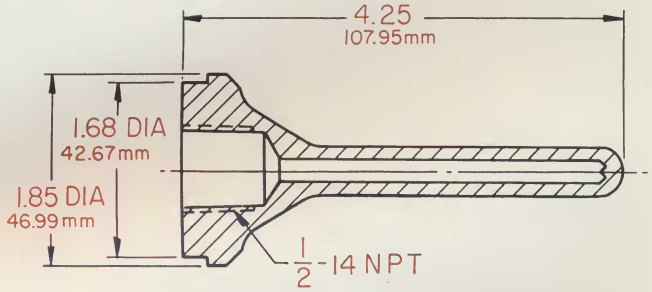
All Dimensions are Approximate.

WELLS – SANITARY

Designed to fit 1½" and 2" Bevel Joint 3A Sanitary Fittings. Made from solid 18-8 Type 304 stainless steel, with a 180 Grit Polish or better. They will accommodate Weston Standard Industrial Thermometers such as Models 4300, 4310, 4500, and 4510 having a 4" long by ¼" diameter stem and ½" N. P. T. connection nut.



P/N 97276 (Fits 2" 3A Fitting)



P/N 97277 (Fits 1½" 3A Fitting)

All Dimensions are Approximate.

Wells: Wells of other materials can be supplied on special order. Correspondence is invited.

WESTON HAS THERMOMETER STOCKING DISTRIBUTORS IN EVERY MAJOR CITY IN THE UNITED STATES

Large stocks of the most popular ranges, sizes, stem lengths and types in both laboratory and industrial are available for immediate delivery.

This large stock of completed instruments provides "off the shelf" immediate delivery of many high quality Weston products.

Destined for all parts of the world, Weston instruments are carefully packaged and start their journey from this efficiently arranged shipping department to satisfy the demand for "Weston Quality."

A Size and Type for Every Application: Weston performance tested thermometers have earned world-wide acceptance for dependability wherever temperature measurements are critical . . . on bearings pipe lines, industrial/marine equipment and in the laboratory. All metal construction minimizes breakage and replacement cost . . . corrosive resistant stainless steel cases, stems and connection nuts assure long service. ☐ The "heart" of this thermometer is the unique helix design. No stem corrections are ever necessary, regardless of stem length. Large dial type in-line pointers and scales provide quick, accurate readings even from a distance! ☐ External adjustment feature located at side of thermometer provides for handy adjustment . . . removable bezels for easy replacement of windows in the field . . . these features and more make Weston Thermometers cost less to use, easy to service if need be, and easy to install. They are available from stock in a variety of sizes, stem lengths, ranges and top, bottom, side or back connection.

WESTON® *prime source for precision . . . since 1888*

WESTON INSTRUMENTS, INC.
NEWARK DIVISION
614 Frelinghuysen Avenue, Newark, New Jersey 07114

09-108-A

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